



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/758,048	01/10/2001	Oded M. Hadass	100.009US01	8269
34206	7590	08/26/2004	EXAMINER	
FOGG AND ASSOCIATES, LLC P.O. BOX 581339 MINNEAPOLIS, MN 55458-1339			ROSALES HANNER, MORELLA I	
		ART UNIT		PAPER NUMBER
		2128		11
DATE MAILED: 08/26/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/758,048	HADASS ET AL.
	Examiner Morella I Rosales-Hanner	Art Unit 2128

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 10 January 2001.
- 2a) This action is FINAL.      2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1 - 34 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1 - 34 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 10 January 2001 is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

**Detailed Action**

1. **Claims 1 – 34** have been examined and are pending.

***Drawings***

2. New corrected drawings are required in this application because the element numbers/names are hand-written which makes them hard to read. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The some of corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 3.1 **Claims 1 – 34** are rejected under 35 U.S.C. 102(b) as being anticipated by a set of printed publications from the Ameritec Corporation describing the company's AM2 Niagara™ family of products for emulating telecommunications equipment, hereafter referred to as *Ameritec*.

**3.1.1** As regard to **claims 1, 22, and 25**, *Ameritec* teaches [**AM2-NC2 Network Call Simulator Product Preview**] an emulated telecommunication exchange comprising:

- a main unit including at least one access device configured for supporting at least one line type and at least one switch interface card [**Pg 1, Fig. 1 – Unit Under Test**];
- a plurality of ports in communication with said main unit, said ports adapted for receiving signals from communication devices [**Pg 1, Fig 1. AM2 –NCS Network Call Simulator**]; and
- a switch simulator in communication with said at least one switch interface card [**Pg 1, Fig. 1 - AM2-D/De**].

**3.1.2** As regard to **claims 2 – 5**, *Ameritec* teaches [**AM2-NC2 Network Call Simulator Product Preview**] a main unit [**Pg 1, Fig. 1 – Unit Under Test**] configured to interface with Analog (POTS) lines and T1 or E1 (ISDN) lines. *Ameritec* further teaches [**Ameritec AM2 – Niagara®**, Pg 2, **Introduction section**] that each AM2 Niagara unit allows interfacing to different line types, one model interfaces to Analog POTS lines, another to Analog P-Phones, other to T1, E1, PRI, BRI, and SS7a main unit comprising at least one first line card adapted for PSTN (POTS), and at least one second line card adapted for ISDN, with the first line card and one second line card in communication with said ports.

**3.1.3** As regard to **claim 6**, *Ameritec* teaches [**AM2-NC2 Network Call Simulator Product Preview**] an emulated exchange, additionally comprising:

- a controller in communication with said main unit and said switch simulator, said controller for configuring and managing the operation of said main unit and said switch simulator [Pg 1, Fig. 1, AM2-D/De devices].

**3.1.4** As regard to **claims 7, 10, 24 and 27**, *Ameritec* teaches [Pg 1, AM2- NCS Network Call Simulator, AM2-CB] simulation of ISDN and POTS switch interface ports (V.1 and V.5).

**3.1.5** As regard to **claim 8**, *Ameritec* teaches [Pg 1, AM2- NCS Network Call Simulator, AM2-CB] an emulated exchange, wherein said port in communication with said at least one PSTN (POTS) line card is adapted for receiving communications from PSTN (POTS) telephones.

**3.1.6** As regard to **claim 9**, *Ameritec* teaches [Pg 1, AM2- NCS Network Call Simulator, AM2-CB] an emulated exchange, wherein said port in communication with said at least one ISDN line card is adapted for receiving communications from ISDN telephones.

**3.1.7** As regard to **claim 11**, *Ameritec* teaches [Pg 1, AM2- NCS Network Call Simulator, AM2-CB] an emulated exchange, wherein said switch simulator is configured for processing POTS data.

**3.1.8** As regard to **claim 12**, *Ameritec* teaches [**Pg 1, AM2- NCS Network Call Simulator, AM2-CB**] an emulated exchange, wherein said switch simulator is configured for processing ISDN data.

**3.1.9** As regard to **claim 13**, *Ameritec* teaches [**AM2 Niagara ® Family of Products**] emulating a telephone system exchange, by:

- providing a switch simulator configured for emulating a digital exchange and opening at least one voice path between connected telephone devices [**AM2-NC2 Network Call Simulator, Pg 1, Fig. 1- AM2-D/De**];
- monitoring at least one telephone line corresponding to at least one calling telephone for line conditions [**Pg 6, User Defined Functionality, Fig. 5, Statistics & Error Messages**];
- detecting incoming an incoming call (responding to a change in line conditions) [**AM2-De MFC Switching Application Note, Pg 1, Call Flow Description, first paragraph**];
- signaling the switch simulator to receive dialed digits [**AM2-De MFC Switching Application Note, Pg 1, Call Flow Description, first paragraph**];
- sending an outward Seize followed by MFR2 Forward digits to perform the outward interregister signaling (activating the switch simulator for placing a call to the telephone line corresponding to the received dialed digits) [**AM2-De MFC Switching Application Note, Pg 1, Call Flow Description, first paragraph**]; and
- initiating a signal for generating a ringing signal to the telephone line of an intended recipient, wherein the intended recipient telephone line corresponding

to the dialed digits [AM2-De MFC Switching Application Note, Pg 1, Call Flow Description, last paragraph].

**3.1.10** As regard to **claim 14**, *Ameritec* teaches [AM2-De, Pg1] the step of monitoring at least one telephone line includes monitoring for an off-hook condition in said at least one calling telephone line.

**3.1.11** As regard to **claim 15**, *Ameritec* teaches [AM2-De, Pg1] the step of responding to a change in line condition includes generating a dial tone to said at least one calling telephone line.

**3.1.12** As regard to **claim 16**, *Ameritec* teaches [AM2-De, Pg1] the step of signaling the switch simulator to receive the dialed digits includes converting pulse-dialed digits to messages.

**3.1.13** As regard to **claim 17**, *Ameritec* teaches [Testing Applications Page] the step of signaling said switch simulator to receive said dialed digits includes transferring Dual Tone Multi-Frequency (DTMF) dialed digits over a voice path to said switch simulator.

**3.1.14** As regard to **claims 18 – 21, 23, 26 and 29**, *Ameritec* teaches [Pg 1, AM2-NCS Network Call Simulator] a method of emulating a telephone exchange system with an

ISDN calling telephone line, a POTS calling telephone line is a POTS line, an ISDN intended recipient telephone line and a POTS intended recipient telephone line.

**3.1.15** As regard to **claim 28**, *Ameritec* teaches [Ameritec AM2-Niagara®] a method for testing a unit under test, the method comprising:

- generating a plurality of calls for lines of first and second line types [Pg 2, **Introduction**];
- processing the plurality of calls in the unit under test [Pg 2, **Fig. 2 - Testing your Application**];
- signaling (generating signals for) a switch to connect the plurality of calls of each of the first and second line types [Pg 2, **Testing Applications, Capabilities in Call Scripts include**];
- selectively switching calls for the first and second line types [Pg 2, **Fig. 3 - Testing your Application**]; and
- monitoring the operation of the unit under test [Pg 6, **Fig. 5 – Statistics & Error Messages**].

**3.1.16** As regard to **claim 30**, *Ameritec* teaches [Ameritec AM2-Niagara®] selectively switching calls for the first and second line types by:

- selectively switching calls of the first line type to a line of one of the first and second line types based on the generated signals [Pg 2, **Fig. 3 - Testing your Application**]; and

- selectively switching calls of the second line type to a line of one of the first and second line types based on the generated signals [Pg 2, Fig. 3 - Testing your Application].

**3.1.17** As regard to **claim 31**, *Ameritec* teaches [Pg 1, Network Simulation] processing the calls in the unit under test by processing the calls in an access device.

**3.1.18** As regard to **claim 32**, *Ameritec* teaches [Pg 1, Network Simulation] generating a plurality of calls by generating a plurality of calls with a bulk call generator of the first line type.

**3.1.19** As regard to **claim 33**, *Ameritec* teaches [Pg 1, Network Simulation ] selectively converting some of the first line type to the second line type.

**3.1.20** As regard to **claim 34**, *Ameritec* teaches [Model 800 Family Digital Network Analyzer] a product for monitoring the operation of the unit under test by monitoring at least one of load on the system, load on ISDN interfaces, Bit Rate Error (BER) performance, call processing performance and traffic handling.

#### ***Additional references***

**4.** The following is a list of references that are relevant to the claimed invention but were not cited by the examiner:

- US Patent No. 5,933,475,
- US Patent No. 5,815,505,
- US Patent No. 5,633,909,
- US Patent No. 6,421,424,
- US Patent No. 4,680,784,
- US Patent No. 5,384,822, and
- US Patent No. 5,552,995.

5. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Morella Rosales-Hanner whose telephone number is (703) 305-8883. The examiner can normally be reached Monday-Friday from 7:00 a.m. to 3:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jean Homere can be reached on 703 308-6647. The fax number for the organization where this application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

MRH

July 20th, 2004

JEAN R. HOMERE  
PRIMARY EXAMINER